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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,249	08/26/2003	Katsuya Kawagoe	241938US3	3049
22850	7590 12/01/2006		EXAMINER	
C. IRVIN MCCLELLAND OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			GRAINGER, QUANA MASHELL	
			ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22314			2852	

DATE MAILED: 12/01/2006

Please find below and/or attached an Office communication concerning this application or proceeding.



Office Action Summary 10/847,248 KAWAGOE, KATSUYA Examiner	•	Application No.	Applicant(s)			
Cuana M. Grainger The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Externition of time may be available under the provisions of 37 CFR 1.136(b). In a event, however, may a reply be timely filed after 51(c) 9000HTS from the mailing date of this communication. If no period for reply is appelled above, the macerimen statutory period will apply and will apply 51(c) MAILANDOSTICE metaling date of this communication. If no period for reply is appelled above, the macerimen statutory period will apply and will apply 51(c) MAILANDOSTICE metaling date of this communication. If no period for reply is appelled above, the macerimen statutory period will apply and will apply 51(c) MAILANDOSTICE metaling date of this communication. If no period for reply is application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2.4-10.12-14 and 16 is/are pending in the application. 4a) Of the above claim(s) is/are vibridravin from consideration. 5) Claim(s) 2.6.8.10.14 and 16 is/are allowed. 6) Claim(s) 2.6.8.10.14 and 16 is/are allowed. 6) Claim(s) 3.6.8.10.14 and 16 is/are lejected. 7) Claim(s) 3.6.8.10.14 and 16 is/are allowed. 6) Claim(s) 4.4.5.7.9.12 and 13 is/are rejected. 7) The drawing(s) field on is objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) field on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some conflicted copies of the priority documents have been received in Application No. 3. Copies of the certified copies		10/647,249	KAWAGOE, KATSUYA			
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extraction of time may be available under the proteions of 3°C PR 1.136(s), his event, however, may a reply be timely filed - Extraction of time may be available under the proteions of 3°C PR 1.136(s), his event, however, may a reply be timely filed - Extraction of time may be available under the proteions of 3°C PR 1.136(s), his event, however, may a reply be timely filed - Extraction of the protein of the prote						
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. Application/Control Number: 10/647,249

Art Unit: 2852

DETAILED ACTION

Claim Objections

1. Claims 1 and 4-5 are objected to because of the following informalities. Claim 1 recites "modulus of the of the belt". Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 4-5, 7, 9, 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iwama et al. in view of Kawaguchi et al.

Iwana et al. teaches a belt having a resin strip formed as a scale with reflect/non-reflecting portions that are used to detect the movement of the belt. Iwana et al. does not teach the elasticity for the belt or scale.

Kawaguchi et al. teaches a resin strip 3 for reinforcing a belt 10. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the teaching of Kawaguchi et al. with the belt of Iwana et al. to obtain a belt with less cracks and ruptures.

Iwama et al. in view of Kawaguchi et al. do not suggest that the scale has a plural magnetic and non-magnetic portions. The examiner takes official notice that it is known in the art to use a scale having magnetic and non-magnetic portions as a part of a speed detecting system for a belt. It would have been obvious to one of ordinary skill in the art at the time the

invention was made to use a magnetic scale with the teaching of Iwama et al. since a magnetic scale to detect the speed of the rotating belt. Iwama et al. does not teach the Young's modulus of the belt. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to select the appropriate Young's modulus for the belt since where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation. *In re Aller*, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

Allowable Subject Matter

4. Claims 2, 6, 8, 10, 14, and 16 are allowed.

Prior Art

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Boothe et al. and (Adachi, Kiuchi et al., Bando et al. (which teach the Young's modulus for intermediate transfer belts)) teach pertinent prior art.

Response to Arguments

6. Applicant's arguments filed 9-15-2006 have been fully considered but they are not persuasive. Applicant argued that Iwama in view of Kawaguchi et al. does not suggest the Young's modulus in the range of 3000 to 7000 Pascal. However, Morikoshi et al. teaches the importance of selecting the range for the Young's modulus for the intermediate transfer member.

Applicant argues that claim 9 has not been addressed. However, the drawing figures 2, 5, 6, show how the scale is read. Applicant also argues with respect to the magnetic scale. Both the teaching of a magnetic scale is old in speed control for a rotating belt and controlling timing

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or speed of a belt based on the results of reading a scale on a belt with a reading device. Just in case a teaching has not been cited for this teaching, Boothe et al. teaches al. is cited above.

Finally, please review the claim 1 with respect to the scale being used to detect and the recitation of movement without the recitation of means to move the belt. The claims remain rejected as discussed above.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quana M. Grainger whose telephone number is 571-272-2135.

The examiner can normally be reached on 8am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Gray can be reached on 571-272-2119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Quana M Grainger Primary Examiner Art Unit 2852

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